

SENATE SELECT COMMITTEE ON BIOTECHNOLOGY

Senator Ellen M. Corbett, Chair

Education, Economic, and Workforce Development of the Biotechnology Sector

Friday, October 1, 2010
Ohlone College Center for Applied Health Sciences and Technology
39399 Cherry Street, Room 2100, Newark, CA

Biographies of Panelists

The Senate Select Committee on Biotechnology is pleased to welcome distinguished panelists testifying before the committee. The panelists represent a broad spectrum of the biotechnology industry, from researchers making cutting-edge discoveries to leaders in the life sciences sector.

Ms. Corinne Augustine
Vice President, Operations
Boston Scientific

Corinne Augustine has held the position of Vice President of Operations for Boston Scientific, a leader in the medical device industry, since 2003. In this role she is responsible for the manufacturing of cardiovascular and neurovascular medical devices in the San Francisco Bay Area. In her current position, Corinne oversees the materials, production, engineering, finance, and facilities functions. In addition she sits on the Imaging Division management board. Corinne has focused her 30 year Operations career across diverse industries with the past 19 years dedicated to companies in the medical device and diagnostic industry where in addition to Boston Scientific she has held Vice-President Manufacturing positions for Intuitive Surgical, Inc. and Acuson Corporations. Her prior experience includes various line management and technical roles with Sun Microsystems, Intel, and Frito-Lay. Corinne holds an MBA from Stanford University and a BS in Industrial Engineering from the University of Florida.

Dr. Susan Baxter
Executive Director, CSUPERB
California State University

Susan Baxter has served as executive director of CSUPERB, since March 2007. In this role, she is responsible for strategic planning and new initiatives related to the life sciences across the 23 campuses of the CSU system. She oversees and manages grants and awards programs for CSU faculty and students system-wide, organizes the annual CSU biotechnology symposium, develops new research and educational

program opportunities, and serves as a liaison for the CSU with life sciences industry, government, philanthropic and educational partners. In addition she currently serves on boards at the BIOCOM Institute, the nonprofit arm of the biotechnology industry association in southern California, and the California Healthcare Institute. Before joining CSUPERB, Baxter served as chief operating officer at the National Center for Genome Resources, where she managed a portfolio of state- and federally-funded projects providing software for collaborative genome and population genetics research teams. Previously Baxter was vice president of research and genome analysis at GeneFormatics and a tenured researcher at the New York State Department of Health's Wadsworth Center. Baxter began her career at Monsanto Agricultural Company where she received an Achievement Award for product development. Baxter completed postdoctoral training at University of Oregon, received her doctoral degree in chemistry from Northwestern University, and graduated with a bachelor's degree in chemistry from the University of Virginia.

Mr. Dave Cragg

*Vice President, Human Resources
Cytokinetics*

Dave Cragg joined Cytokinetics in February 2005 as Vice President, Human Resources and was promoted to Sr. Vice President in July 2009. Prior to joining Cytokinetics, from October 2000 until January 2005, Dave managed his own human resources consulting practice assisting organizations with building human resources infrastructure. From March 2000 until September 2000, he was Vice President, Human Resources for eGroups Inc., until it was acquired by Yahoo! Inc. From 1996 to 2000 Dave was a Principal Human Resources Consultant at Genentech Inc. supporting Research and Development. From 1992-1995 he was Senior Director, Human Resources at Software Publishing Corporation. From 1989 to 1992 he was Vice President, Human Resources & Administration at West Marine, Inc. From 1986 to 1989 he was Senior Manager Human Resources at LSI Logic Corporation. Prior to 1986, Dave held various management positions in human resources. Dave holds a B.A. in Industrial Psychology from the University of California, Santa Cruz.

Mr. Jimmy Jackson

*Vice President, Public Policy and Communications
BIOCOM*

Jimmy Jackson is the Vice President of Public Policy and Communications for BIOCOM. In this role, he oversees government affairs, public policy and communications for BIOCOM. Jackson's background in the healthcare field go back to his teen years, as he was a Junior Volunteer at Grossmont Hospital (one of only two males in this role at the time) as a high school junior.

Prior to BIOCOM, Jackson served for seven years as the Chief of Staff for State Senator Dede Alpert (retired), former Chair of the California State Senate Appropriations Committee, overseeing operation of her offices in both San Diego and

Sacramento. Jackson was the staff person responsible for several bills which became law, including SB 148 of 1998 (insurance coverage for medical foods and formulas used in treatment of PKU), SB 1360 of 1997 (rights of families of murder victims), and SB 1855 of 2004 (disclosures for homeowners insurance policies). He has also participated in compromise language negotiations on many pieces of legislation since joining BIOCOM.

Jimmy also represented Senator Alpert on a number of local committees and in select communities within her district. He is an experienced guest lecturer on state government and advocacy, and was a regular guest lecturer for a graduate nursing course at the University of California, San Diego Medical Center for over a decade.

Jackson has also been active in the community. He has served as a volunteer for the American Red Cross, and is a past winner of the Cabrillo Award, the highest honor the San Diego Chapter of the Red Cross can bestow on a volunteer. He has also served as a Member of the Board of Directors and President of both the Children's PKU Network (a national non-profit) and the Crime Victims Fund (a local non-profit), also earning the Children's PKU Network "Friend of the Year" Award.

Elaine Johnson, Ph.D.

Executive Director

Bio-Link

Dr. Elaine Johnson is the Executive Director of Bio-Link, a National Science Foundation Advanced Technological Education National Center for Biotechnology and Related Life Sciences based City College of San Francisco. Elaine is a leading advocate for educating biotechnology technicians using the resources of community and technical colleges. She serves on local, regional, and national educational, governmental and industry advisory panels and boards. She holds degrees in chemistry & physics, microbiology, nutrition, and educational administration. She has been a Faculty Fellow at Lawrence Berkeley National Laboratory and has participated in the development of the National Skill Standards for Bioscience and their integration with the Agricultural Biotechnology Standards. Elaine specializes in creating partnerships between educational institutions and industry. She promotes articulation between educational institutions in the effort to create career pathways. She is an active member of the UCSF Community Advisory Group (CAG) and Public Science Project. She serves on the Board for the BayBio Institute and Bay Area Biotechnology Education Consortium (BABEC) as well as being a member of the Minnesota Biosciences Education-Industry Partnership Council. Elaine co-chaired the Outreach and Education Committee for BIO 2004 and helped organize and present at the Community College Workforce Day for BIO 2004, 2005, 2006, 2007, 2008, 2009 and 2010. She has been by invited by the American Association for the Advancement of Science (AAAS) to a working conference on *Transforming Undergraduate Education in Biology: Mobilizing the Community for Change*. Elaine is nationally recognized as an innovator and leader in providing education for careers in biotechnology and related life sciences.

Ms. Peggy D. Kraus

*Senior Manager, Corporate Communications
Amgen*

Peggy is the Senior Manager for Corporate Communications for Amgen Fremont, one of Amgen's Bay Area manufacturing facilities. Peggy is an accomplished communications professional with more than 25 years of experience in communications and public relations. She is a board member of the Alameda County Workforce Investment Board and serves as a commissioner for the city of Fremont's Economic Development Advisory Commission. Prior to joining Amgen in 2006, she worked for noted public relations agencies Hill and Knowlton and Fleishman-Hillard, specializing in healthcare, as well as for several hospitals and healthcare organizations. She holds a BA in Journalism from Marquette University.

Mr. Jeremy Leffler

*Chief Operative Officer
BayBio*

Jeremy Leffler is Chief Operating Officer for BayBio. In this capacity Jeremy oversees day to day operations of BayBio, Northern California's trade association representing the life science industry of over 1,200 companies. Jeremy also manages the association's policy and advocacy efforts as well as communications, membership and development departments. Jeremy comes to BayBio from Eli Lilly where he worked in federal policy managing a wide portfolio of issues, most notably he was the policy lead on follow-on-biologics. He has previously lobbied for non-profit health care in Washington D.C. at the American Academy of Physician Assistants and American Association of Blood Banks. He also worked for two consecutive General Assembly sessions in Kentucky, his home state. Jeremy has his Master's in Political Management from The George Washington University, and was a Trustee's Scholar in Political Science and Communications at The University of Louisville.

Lori Lindburg, Ph.D.

*Director, BayBio Institute
BayBio*

Dr. Lori Lindburg currently manages the BayBio Institute's workforce, entrepreneurship and education initiatives, ensuring that they align with industry needs. With over 9 years of experience in workforce development, Lori has worked with the private sector, local governments and organizations to develop workforce systems in growth industries that are inclusive of underserved communities. During her 8.5 years as VP of SF Works, Lori led employer engagement efforts and developed and managed SF Works' pre-employment training programs, including the nationally-recognized On-Ramp to Biotech program. Having completed coursework for a Ph.D. at American University in Washington, D.C., Lori served as a Senior Research Associate at the Brussels-based Migration Policy Group for 5 years, where she coordinated best practice exchanges between business leaders and senior officials from the EU member states, the US and

Canada. She has also served as a Visiting Fellow at Stanford University, a Research Associate at the Carnegie Endowment for International Peace, and a consultant for the Council of Europe.

Prof. Martina Newell-McGloughlin, Ph.D.

*Director, Biotechnology Research and Education Program
University of California*

Martina Newell-McGloughlin, directs the UC Systemwide Biotechnology Research and Education Program (UCBREP), which covers all ten campuses and three national Laboratories, Lawrence Livermore, Lawrence Berkeley and Los Alamos. She won this away from Berkeley in 2001. The founding director was Nobel Laureate Paul Boyer “Mr. ATP”. Her program was singled out as an example of how a multicampus research unit can reinvent itself to address evolving needs. She is co-director of an NIH Training Grant in Biomolecular Technology, one of only four in California, the others being at Berkeley, UCLA and Stanford and the NSF CREATE program in Collaborative Research and Education in Agricultural Technologies and Engineering. Prior to this she was the inaugural director of the UC System Life Sciences Informatics Program and director of the UC Davis Biotechnology Program. She contributed to the formation of Science Foundation Ireland and is now a member of its Board of Directors and chair of its sub-board on grants. SFI has been credited with establishing a reputation for excellence in research and nurturing the knowledge economy and hi-tech industry in Ireland.

In her position she is required to be cognizant of the state-of-the-art in everything from stem cells to nanotechnology research across academia and industry. She has broad experience in developing novel biotechnology research, training and education programs and experience in managing large multidisciplinary grants programs. She has been selected by the former Director of NSF and the former president of the NAS to review cross disciplinary science programs at other institutions. She has published and edited numerous papers, articles, book chapters, three books on biotechnology including her latest book “The Evolution of Biotechnology: From Natufians to Nanotechnology”. The review of the most recent edition of the “bible” of food chemistry “Fennema’s Food Chemistry” singled out her chapter for special consideration.

Her personal research has been in the areas of plant biotech, scale-up systems for industrial and pharmaceutical production in microbes and microbiological mining. She speaks frequently before scientific and other associations, testifies before legislative bodies, and works with the media. She recently was the keynote speaker at the venerable National Agricultural Biotech Council and previously the prestigious International Genomics Conference following in the footsteps of such notables as Francis Collins, Craig Venter and Leroy Hood. She travels worldwide for various organizations including the US State Department and the USDA as an expert on biotech research, regulatory and socioeconomic issues. She was requested by the Gates Foundation to brief their directors and by the Pontifical Academy of Science to brief the Vatican on future opportunities and challenges in Biotechnology. She serves on boards

with world renowned leaders including Craig Barrett (former Intel Chief), Leroy Hood (founding father of biotech), Rita Colwell, Eric Bloch (former leader of IBM and NSF).

The Academic Federation awarded its James H. Meyer Distinguished Achievement Award to her. In 2003, the Council for Biotechnology named her one of the DNA Anniversary Year, Faces of Innovation among such luminaries as Norman Borlaug, Ingo Potrykus, Mary Dell Chilton and Roger Beachy, the pioneers and innovators behind the progress of plant biotechnology over the past 20 years. In 2005 she, Lester Crawford, former FDA Commissioner among others were awarded the 'Irish America Science Awards' as one of the top contributors to Irish American Science.

Mr. Jeffrey O'Neal

*State Director, Biotechnology Initiative
California Community Colleges*

Jeffery O'Neal has served as the State Director for The Biotechnology Initiative of the California Community Colleges, Economic and Workforce Development Program since 2008. Formerly, he served for 10 years as a regional center director for the Initiative. He is a former program coordinator and instructor for the University of California at Davis, where he conducted molecular biology workshops for community college faculty. He developed and served as Principal Investigator on a number of National Science Foundation funded Advanced Technological Education projects, primarily centered on developing innovative curriculum and training in biotechnology and bioinformatics. He is also a former research scientist at a leading plant biotechnology company, where he was involved in projects that included the development of specialized expression vectors, the modification of oil synthesis in plants, and the introduction of the world's first genetically engineered whole-food to the market. Mr. O'Neal holds various US and international patents on plant biotechnology products.

Ms. Raya Zion

*Business Services Representative
Alameda County Workforce Investment Board*

Raya Zion has served as a Business Services Representative with the Alameda County Workforce Investment Board concentrating on the Biotech and Cleantech industry sectors since Oct. of 2009. From 2003 to 2009, while employed by the San Mateo County Central Labor Council, Raya was the job developer and biotech business developer for the Biotech Workforce Network (BWN) that Focused on retraining dislocated airport workers via a collaborative with Skyline College, Ohlone College, Alameda County WIB and San Mateo County WIB. This Biotech Workforce Network facilitated the re-training and employment of over 600 people into technician level positions within the biotech industry sector. Presently, as a Business Services Representative, she engages with life sciences companies offering workforce hiring incentives, industry retraining, customized training and recruiting facilitation. In addition, Raya acts as an industry liaison, organizing company tours and industry education

events for local government, educational institutions and dislocated workers for the Bay Area Clean Energy Careers Project. Before joining the BWN, Raya Zion was a recruitment and investor relations manager with a local biotech company for several years. Raya Zion's initiation into workforce development and the biotechnology industry was during her 14 years in management for a national staffing corporation. She holds a Bachelor of Arts degree in Industrial Organizational Psychology from San Francisco State University.